

SON-2026

PATENT APPLICATION

IN THE CLAIMS

Please note the elected status of the claims as follows and amend the claims as follows:

1. (Elected) An injection molding apparatus, comprising:

at least a pair of dies provided to be openable and closable for forming a plurality of cavities therebetween when said pair of dies are closed;

die closing means for closing said pair of dies under a prescribed pressure;

injection means for injecting a molten resin under a prescribed pressure into said plurality of cavities formed between said pair of dies when said dies are closed; and

control means for controlling said die closing means and said injection means;

said apparatus further comprising:

a plurality of pressure detection means for detecting the pressure in each of said plurality of cavities, wherein:

said control means controls said injection means and said die closing means in accordance with a detected value from said plurality of pressure detection means.

2. (Elected) The injection molding apparatus according to claim 1, wherein when a pressure difference among said plurality of cavities is found to be greater than a prescribed value, said control means controls a rate of injection of the molten resin and/or a die closing force to be reduced, in accordance with the detected values from said plurality of pressure detection means.

SON-2026

PATENT APPLICATION

3. (Elected) The injection molding apparatus according to claim 1, wherein when a pressure difference among said plurality of cavities is found to be greater than a prescribed value, said control means stops the injection of the molten resin and/or application of a die closing force, in accordance with the detected values from said plurality of pressure detection means.

4. (Linking) The injection molding apparatus according to any one of claims 1, 2, and 3, wherein said control means carries out its control in accordance with a program which presets injection conditions at a first molding instance in an injection molding operation.

5. (Linking) The injection molding apparatus according to any one of claims 1, 2 and 3, wherein said control means controls so that a quantity of injection of the molten resin in a first molding instance in its injection molding operation becomes $1/n$ or less compared with a quantity of injection thereof in a second and subsequent molding instances, provided that there exist n cavities.

6. (Species II, Withdrawn) An injection molding apparatus, comprising
at least a pair of dies provided to be openable and closable for forming a plurality of cavities therebetween when said pair of dies are closed;
die closing means for closing said pair of dies under a prescribed pressure;

SON-2026

PATENT APPLICATION

injection means for injecting a molten resin under a prescribed pressure into said plurality of cavities formed between said pair of dies which said dies are closed; and control means for controlling said die closing means and said injection means, wherein:

said control means carries out its control in accordance with a program, which presets injection conditions that are effective only for a first molding instance in an injection molding operation.

7. (Species II, Withdrawn) The injection molding apparatus according to claim 6, wherein said control means controls so that a quantity of injection of the molten resin at a first molding instance in an injection molding operation becomes $1/n$ or less compared with a quantity of injection thereof at a second and subsequent molding instances provided that there exist n cavities.

8. (Species II, Withdrawn) An injection molding method utilizing an injection molding apparatus having at least a pair of dies provided to be openable and closable for forming a plurality of cavities therebetween when said pair of dies are closed, into which a molten resin is injected, said method comprising the steps of:

detecting a pressure in each of said plurality of cavities, respectively; and if a pressure difference between said plurality of cavities exceeds a predetermined value, reducing a rate of injection of the molten resin and/or a die closing force.

SON-2026

...PATENT APPLICATION

9. (Species II, Withdrawn) An injection molding method utilizing an injection molding apparatus having at least a pair of dies provided to be opeanble and closable for forming a plurality of cavities therebetween when said pair of dies are closed, into which a molten resin is injected, said method comprising the steps of:

detecting a pressure in each of said plurality of cavities, respectively; and

if a pressure difference between said plurality of cavities exceeds a predetermined value, stopping injection of the molten resin and/or application of a die closing force.